

Title (en)
Method of hardening a valve face in a poppet valve

Title (de)
Verfahren zum Härten vom Hubventilkopf

Title (fr)
Procédé de durcissement d'une tête de soupape

Publication
EP 1094202 A3 20020814 (EN)

Application
EP 00101170 A 20000121

Priority
• JP 29804999 A 19991020
• JP 30228599 A 19991025

Abstract (en)
[origin: EP1094202A2] In a valve head of a poppet valve used in an internal combustion engine, a lobe is formed. The lobe has a vertical section of an isosceles triangle which has a vertex in the middle. By pressing the lobe in a bore of a die, the lobe is plastically deformed, so that a valve face is formed at a position which contacts a valve seat. Suitable airtightness is obtained between the valve face and the valve seat. <IMAGE>

IPC 1-7
F01L 3/02; **F01L 3/20**; **B21K 1/22**

IPC 8 full level
F01L 3/02 (2006.01); **F01L 3/20** (2006.01); **F16K 27/00** (2006.01)

CPC (source: EP KR US)
F01L 3/02 (2013.01 - EP US); **F01L 3/20** (2013.01 - EP US); **F16K 27/00** (2013.01 - KR); **Y10T 29/49298** (2015.01 - EP US)

Citation (search report)
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• [A] US 5056219 A 19911015 - IWASE SATORU [JP]
• [A] EP 0280467 A1 19880831 - EATON CORP [US]
• [XA] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 07 31 July 1996 (1996-07-31)

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EP3088776A4; US10473002B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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